

CLAIMS

1. A radar comprising:

scanning means for transmitting and receiving a
5 detection signal and for varying a beam azimuth of a
detection radio wave over a predetermined scanning angular
range;

means for determining a signal-strength profile from
changes in strength in the azimuthal direction of a received
10 signal from a target at a position remote from the scanning
means by a predetermined distance as a function of the beam
azimuth; and

estimating means for estimating the target azimuth
causing the signal-strength profile from the signal-strength
15 profile, which is part of a convex located adjacent to the
outermost angle in the scanning angular range.

2. The radar according to Claim 1, wherein

the estimating means estimates the target azimuth from
20 the ratio between the received signal strengths at at least
two beam azimuths.

3. The radar according to Claim 2, further comprising:

means for determining a reflectivity of the target on
25 the basis of the ratio between the received signal strengths

of the two beam azimuths and the directional characteristic of an antenna that forms the above-described beam.

4. The radar according to Claim 1, wherein

5 the estimating means estimates the target azimuth from the number of beams having received signal strengths exceeding a threshold level and from the received signal strength of at least one of the beams in an azimuth range of half of a beam width, from the outermost angle, having
10 antenna gains exceeding a predetermined threshold level.